

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 B66B5/00 B66B1/36

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 B66B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 130355 A (HITACHI BUILDING SYSTEMS CO LTD), 18 May 1999 (1999-05-18) abstract	1,7
X	PATENT ABSTRACTS OF JAPAN vol. 0144, no. 28 (M-1025), 14 September 1990 (1990-09-14) & JP 2 169482 A (TOSHIBA CORP), 29 June 1990 (1990-06-29) abstract	1,7
A	US 5 727 657 A (FOELIX HEINRICH) 17 March 1998 (1998-03-17) column 5; figures 8,11	1-8



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

8 December 2004

Date of mailing of the international search report

03/01/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/096791 A (CONCHELLO MORENO JOSE ANGEL ; MAC PUAR S A (ES)) 5 December 2002 (2002-12-05) the whole document -----	1-8

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International Application No  
PCT/IB2004/000983

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 11130355	A	18-05-1999	NONE		
JP 2169482	A	29-06-1990	NONE		
US 5727657	A	17-03-1998	AT	201009 T	15-05-2001
			CA	2166841 A1	01-08-1996
			DE	59606855 D1	13-06-2001
			DK	725033 T3	06-08-2001
			EP	0725033 A1	07-08-1996
			ES	2158154 T3	01-09-2001
			FI	960410 A	01-08-1996
			JP	8245110 A	24-09-1996
			NO	960399 A	01-08-1996
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